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Mar 9, 1999

PUB-NO: JP411067251A  
DOCUMENT-IDENTIFIER: JP 11067251 A  
TITLE: FUEL CELL POWER GENERATING DEVICE

PUBN-DATE: March 9, 1999

## INVENTOR-INFORMATION:

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APPL-NO: JP09229075

APPL-DATE: August 26, 1997

INT-CL (IPC): H01 M 8/04; H01 M 8/06

## ABSTRACT:

PROBLEM TO BE SOLVED: To provide a fuel cell power generating device capable of making a purge gas line compact and reducing a cost by using air as a purge gas of a housing container.

SOLUTION: This fuel cell power generating system has a fuel cell 20 comprising an anode and a cathode and generating power with a cathode gas containing oxygen and an anode gas containing hydrogen, a housing container 21 for housing the fuel cell 20, a reformer 22 for burning an anode exhaust gas exhausted from the anode and a cathode exhaust gas exhausted from the cathode, reforming a fuel gas containing water vapor by the burning heat, and supplying the reformed gas as an anode gas to the anode, a carbon dioxide gas recycling line 7 for supplying the burned exhaust gas from the reformer 22 to the cathode, an air line 8 for supplying air to the carbon dioxide recycling line 7, and a turbine compressor 28 for driving a turbine with the cathode exhaust gas to compress air and supplying the compressed air to the air line 8. A purge gas line 14 branched from the air line 8 and for supplying a purge gas to the housing container 21 is arranged.

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